

Message Text

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72

ACTION OES-05

INFO OCT-01 EUR-12 ISO-00 FEA-01 ACDA-10 CIAE-00 INR-07

IO-10 L-02 NSAE-00 NSC-05 RSC-01 /054 W

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R 042201Z FEB 75

FM AMEMBASSY OTTAWA

TO US ERDA GERMANTOWN

INFO SECSTATE WASHDC 5562

UNCLAS OTTAWA 0408

US ERDA FOR JOSEPH D. LAFLEUR, JR.

E.O. 11652: N/A

TAGS: TECH, ENRG, CA

SUBJECT: NUCLEAR REACTOR PIPE CRACKS

REF: USERDA TELEGRAM 861 AND 862, JAN 31.

1. IN ABSENCE OF SCIENCE COUNSELOR HUDSON ON HOME LEAVE, EMBOFF DISCUSSED MATTER OF NUCLEAR REACTOR PIPE CRACKS WITH DRS. AIKEN AND RUSSELL OF ATOMIC ENERGY OF CANADA LIMITED (AECL). ACCORDING TO INFORMATION OBTAINED FROM THEM, CANADA HAS NOT REPEAT NOT HAD ANY EXPERIENCES IDENTICAL TO CRACKING PROBLEMS NOW ENCOUNTERED BY U.S. IN ITS BOILING WATER NUCLEAR POWER PLANTS BECAUSE CANADA DOES NOT REPEAT NOT OPERATE THE SAME SYSTEMS AS THE U.S. AND USES MILD STEEL IN ITS MAJOR COOLANT SYSTEMS AS OPPOSED TO STAINLESS STEEL PIPING.

2. ACCORDING TO RUSSELL, CANADA'S GENTILLY I REACTOR, WHICH IS CLOSEST IN NATURE TO A BWR, HAS ENCOUNTERED SOME CHROME/MOLYBDENUM CRACKING BUT CANADIANS ARE CONFIDENT THIS CRACKING WAS INDUCED BY OVERLY HIGH STRESSES AND THAT THE CURE (ALTHOUGH SUFFICIENT TIME HAS NOT PASSED TO BE POSITIVE) IS STRESS RELIEF MEASURES.

3. RUSSELL ALSO MENTIONED CASES OF CRACKING IN THE PICKERING PRESSURE TUBES IN PRIMARY COOLANT CIRCUITS (SEE OTTAWA'S A-632 OF DEC 10, 1974) BUT NOTED THAT THESE OCCURRENCES WERE ALSO NOT COMPARABLE

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TO THE BWR PROBLEMS.

PORTER

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NNN

Message Attributes

Automatic Decaptioning: X
Capture Date: 01 JAN 1994
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Decaption Date: 01 JAN 1960
Decaption Note:
Disposition Action: n/a
Disposition Approved on Date:
Disposition Authority: n/a
Disposition Case Number: n/a
Disposition Comment:
Disposition Date: 01 JAN 1960
Disposition Event:
Disposition History: n/a
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Drafter: n/a
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